

26 August 2019

BluGlass formally opens new laboratories to expand RPCVD development and commercialisation operations

Key Points

- new laboratories represent an investment of \$6 million in additional equipment and associated infrastructure
- semiconductor wafer growth already under way in the first of two additional semiconductor deposition systems
- second deposition system currently scheduled to start operations towards the end of calendar year 2019
- together, these two additional systems will triple BluGlass' RPCVD wafer capacity

Australian semiconductor technology developer BluGlass Limited (ASX: BLG) today formally opened its Paul Dunnigan laboratories at its state-of-the-art facility in Silverwater, Sydney.

The new laboratories represent an investment of over \$6 million in equipment and associated infrastructure and incorporates two new cleanrooms which house two additional semiconductor deposition systems, significantly expanding the Company's operational and manufacturing capacity. The Paul Dunnigan Laboratories are named after BluGlass engineer, the late Paul Dunnigan, and were opened by members of his family, and the City of Parramatta Lord Mayor, Councillor Andrew Wilson.

The Paul Dunnigan labs will contribute to BluGlass' centre of worldwide excellence in semiconductor process and equipment development. BluGlass is developing and commercialising a unique Australian technology called remote plasma chemical vapour deposition (RPCVD), a revolutionary approach to the manufacture of group III nitrides which are essential components used in millions of electronics devices globally. RPCVD offers better-performing, lower-cost devices and more environmentally sustainable processes for electronics manufacturers producing LEDs for automotive and overhead lighting, microLEDs for wearables and virtual reality display and power electronics for efficient power conversion.

The output from these new facilities will be used in commercial contracts, on collaborations with commercial partners, and as part of BluGlass' continuing development of RPCVD for the manufacture of LEDs, microLEDs, laser diodes, power electronics and other optoelectronic devices.

The first of these new systems, the BLG-300II, is now commissioned and has started semiconductor wafer growth runs using RPCVD and has already expanded BluGlass' operational capacity. BluGlass aims to commission its largest RPCVD system to date, by retrofitting the commercial scale AIX 2800 G4, in collaboration with global semiconductor equipment leader, AIXTRON SE of Germany. The RPCVD G4 system is due to commence operation by the end of 2019. Together, these two new systems (BLG-300II and RPCVD G4) will more than triple our RPCVD wafer capacity while also demonstrating the scaling potential of RPCVD.

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City of Parramatta Lord Mayor Cr Andrew Wilson said “I’m delighted BluGlass has opened its new labs in Silverwater. These new laboratories are representative of the incredible calibre of research and development that is taking place in the City of Parramatta. I’m pleased to see BluGlass continuing to call Western Sydney home.”



BluGlass Officially Opens the Paul Dunnigan Labs: (L-R) BluGlass NED **James Walker**; Lynda Voltz MP; BluGlass MD, **Giles Bourne**; Councillor **Patricia Prociw**; City of Parramatta Lord Mayor, **Andrew Wilson**; BluGlass Head of Hardware and Facilities, **Denis Timoney**; **Susan Dunnigan**; Senator **Hollie Hughes**; BluGlass CTO **Dr Ian Mann**; **Julie Owens** MP; BluGlass Investor Relations, **Stefanie Winwood**

Giles Bourne, CEO and Managing Director of BluGlass added “It is very exciting to be unveiling this major facility expansion today. These new systems and infrastructure allow us to expand our revenue-generating epitaxy foundry services, accelerate our RPCVD development for commercial applications and will provide the foundation for our continued negotiations with leading specialist opto-electronics manufacturers around the world.”

About BluGlass

BluGlass Limited (ASX: BLG) is a global leader commercialising a breakthrough technology using Remote Plasma Chemical Vapour Deposition (RPCVD) for the manufacture of high-performance LEDs and other devices. BluGlass has invented a new process using RPCVD to grow advanced materials such as gallium nitride (GaN) and indium gallium nitride (InGaN). These materials are crucial to the production of high-efficiency devices such as power electronics and high-brightness (LEDs) used in next-generation vehicle lighting, virtual reality systems and device backlighting.

The RPCVD technology, because of its low temperature and flexible nature, offers many potential benefits over existing technologies including higher efficiency, lower cost, substrate flexibility (including GaN on silicon), and scalability.

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